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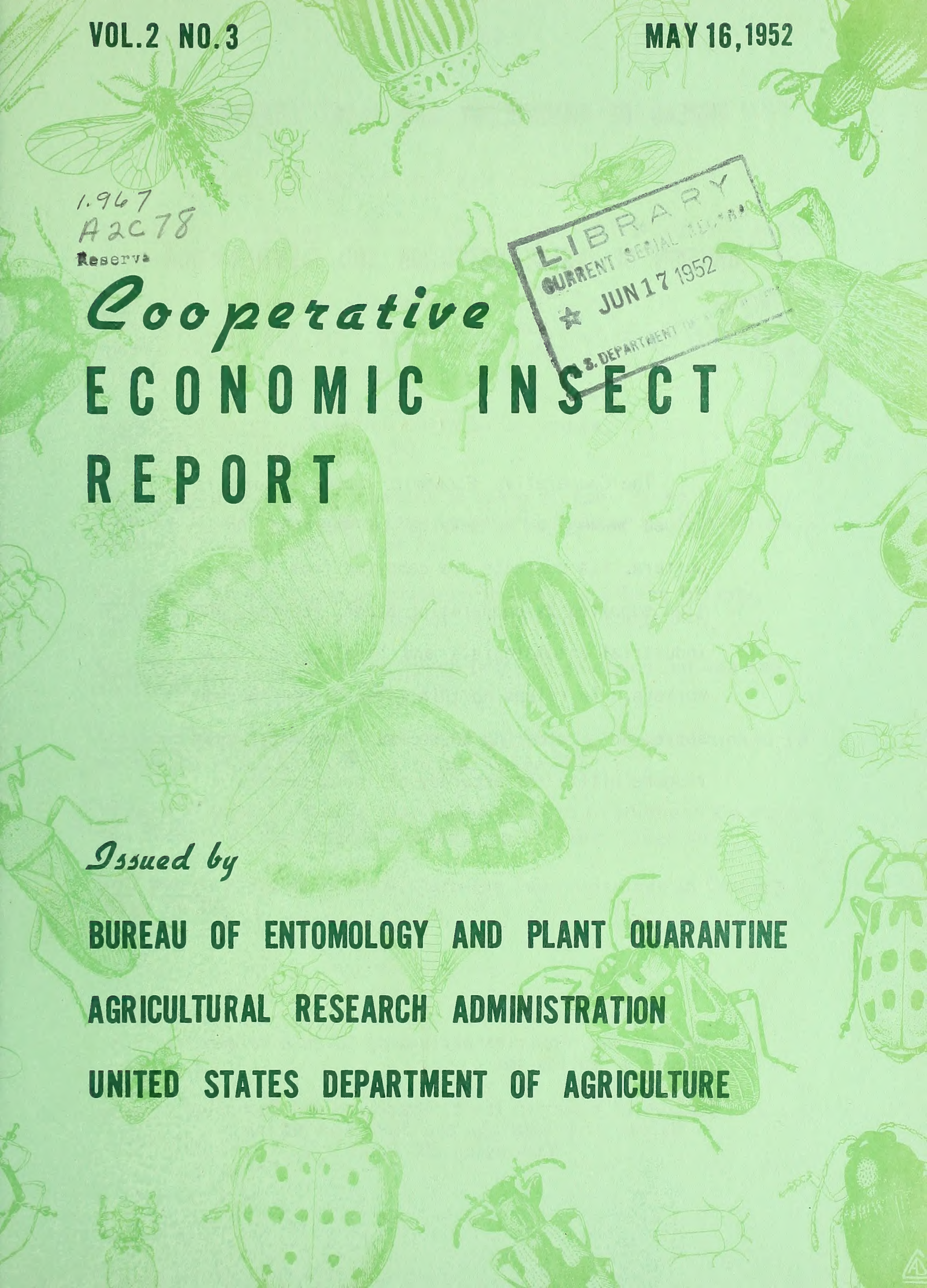

# *Cooperative* ECONOMIC INSECT REPORT

*Issued by*

BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE
AGRICULTURAL RESEARCH ADMINISTRATION
UNITED STATES DEPARTMENT OF AGRICULTURE

# BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE

## DIVISION OF INSECT DETECTION AND IDENTIFICATION

### SECTION OF ECONOMIC INSECT DETECTION AND REPORTING

The Cooperative Economic Insect Report is issued weekly as a service to American Agriculture. Its contents are compiled from information supplied by cooperating State, Federal, and industrial entomologists and other agricultural workers. In releasing this material the Bureau serves as a clearing house and does not assume responsibility for accuracy of the material.

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# COOPERATIVE ECONOMIC INSECT REPORT

## Highlights of Insect Conditions

European corn borer pupation reported from Maryland and central Ohio, (page 32).

Pea aphid abundant on alfalfa in New York, Delaware, Louisiana, and New Mexico. Infestation in peas on Eastern Shore of Maryland requires control measures. Migration to peas reported from Delaware, Virginia, and southern Ohio, (page 33).

Sugarcane borer infestation heavy in Louisiana, primarily in sweet corn and field corn, (page 34).

Red-banded leaf roller hatching in lower Hudson River Valley of New York, in New Jersey, and in central Missouri. Infestation in southern Illinois light, (page 34).

Codling moth emerging in southern Indiana, southern Illinois, Missouri, and Yakima Valley of Washington, (page 34).

Oriental fruit moth infested peach twigs in southern Indiana and southern Illinois, (page 35).

Mexican bean beetles at Norfolk, Va., May 1. Control measures necessary in northwestern Florida, (page 36).

Vegetable weevil injuring flue-cured tobacco in southern Georgia and present on shade-grown tobacco in Florida, (page 38).

Boll weevil in fields in South Carolina, some damage in Georgia, (page 38-39).

## CEREAL AND FORAGE INSECTS

Grasshoppers (Acrididae) -- Hatch generally begun in west-central and the Panhandle counties of Texas by May 3. (J. R. Dutton).

Mormon cricket (Anabrus simplex) -- Spring surveys revealed about 70,000 acres of infested range land in Nevada which will require control. Third and fourth instar crickets reported in Diamond Valley, the vicinity of Battle Mountain, and the Gerlach district. (J. R. Dutton).

Field cricket (Acheta assimilis) -- Several winter-wheat fields in Big Horn County, Mont., showed severe marginal damage April 16. The crickets were moving into the margins of fields from adjacent stubble. Infestations in wheat fields estimated to exceed 25 crickets per square yard. (J. P. Corkins).

White grubs (Phyllophaga spp.) -- The grubs of "Brood A" are very abundant throughout southern Wisconsin. (E. L. Chambers).

English grain aphid (Macrosiphum granarium) -- A general and severe infestation developed in wheat in Oklahoma. Present in most fields, but areas of serious infestation restricted. (F. A. Fenton).

European corn borer (Pyrausta nubilalis) -- In Maryland pupation well along in Carroll and Frederick Counties, occurring in Washington and Allegany Counties. (T. L. Bissell). No pupation at Wooster, Ohio, May 6; 4 percent pupation at Columbus, May 8. (E. T. Hibbs). Winter mortality in central-east and northeast counties of South Dakota averaged from 10 to 20 percent, highest being in low, poorly drained districts in the southeastern part of the State. (Weekly Insect Rept., S. D. St. Coll.).

Fall armyworm (Laphygma frugiperda) -- Fairly heavy damage in many fields of corn in southern Louisiana. (A. L. Dugas).

Wireworms (Elateridae) -- Dry-land wireworms damaged winter wheat in Fergus, Cascade, and Phillips Counties, Mont. A field about 15 miles southeast of Great Falls was examined on April 19; severe damage to the winter wheat had occurred and the field had been reseeded to spring wheat. (J. P. Corkins). Limonius canus and L. californicus damaged wheat, barley, sugar beets, and garden vegetables in untreated soils in the Walla Walla district of Washington during April and will continue into May. Where soil has been treated with DDT there is no damage. (M. C. Lane).

Brown wheat mite (*Petrobia latens*) -- Population readings May 6 (Berlese funnel) averaged 8.5 adults and 11.4 nymphs per wheat plant in Colorado. (L. B. Daniels).

Alfalfa weevil (*Hypera postica*) -- The present known distribution of the weevil in Delaware is westward from Greenwood to the Maryland State Line, eastward to Lincoln, and northeastward to Felton and Frederica. Several plantings about Adamsville seriously affected by larvae, now more abundant than adults. (Late News about Insects and Diseases, Univ. Del.). Weevils found on alfalfa in Prince Georges, Kent, Talbot, Dorchester, and Wicomico Counites, Md. Numerous larvae in collections on the Eastern Shore. (T. L. Bissell). Numerous adults and few larvae in unsprayed alfalfa fields in Colorado. (L. B. Daniels). Adults moderately abundant in alfalfa fields in northern Utah where not sprayed. An occasional larva found. (G. F. Knowlton). Emerging in moderate numbers in Oregon first part of April. (Oregon St. Coll., Ent. Dept.).

Sweetclover weevil (*Sitona cylindricollis*) -- Extensive damage to sweetclover seedlings in Minnehaha, Lincoln, Union, and Clay Counties in eastern South Dakota. (Weekly Insect Rept., S. Dak., St. Coll.). Destroying sweetclover in Park County, Wyo. (H. S. Beaudoin).

Pea aphid (*Macrosiphum pisi*) -- Very abundant on alfalfa in Livingstone County, N. Y. (N. Y. St. Coll. Agr., News Letter). Very abundant and severely damaging alfalfa in many localities in Kent and Sussex Counties, Del. A fungus is destroying a large percentage of the aphids west of Greenwood. Beginning to establish colonies on peas near Greenwood and Milford. (Late News about Insects and Diseases, Univ. Del.). Infestation in peas general on Eastern Shore of Maryland and spraying being done. (T. L. Bissell). Present in moderate numbers on English peas in the Norfolk district of Virginia. (R. W. Brubaker, and D. E. Greenwood and R. N. Hofmaster). On peas at Gallipolis, Ohio. (F. H. Harries). Heavy infestations still present on alfalfa and crimson clover in the Shreveport district of Louisiana. (La. Ins. Pest Surv., Serv. Leafl. No. 3-52, May 10). Sufficiently abundant on alfalfa in some parts of New Mexico to require control measures. (M. Swoboda). Light to medium infestation on alfalfa in Colorado. (L. B. Daniels). First week of May populations in alfalfa fields in the Walla Walla district of Washington remained low and static. Some winged aphids migrated to pea fields south and east of Walla Walla, where the populations approach 1 aphid per sweep in a few fields. This population is low to moderate for this time of year and no damaging populations are expected for two or three weeks, at least. (W. C. Cook).

Spittlebugs (Cercopidae) -- Beginning to find young bugs on alfalfa and Ladino clover in Massachusetts. (A. I. Bourne). Nymphs on alfalfa and red clover in Oswego and Jefferson Counties, N. Y. (N. Y. St. Coll. Agr., News Letter). Frothy masses of meadow spittlebug (Philaenus leucophthalmus) conspicuous in nearly all red clover fields in Delaware. (Late News about Insects and Diseases, Univ. Del.). Very conspicuous on alfalfa, red clover, and many other plants in Maryland. (T. L. Bissell).

Two-spotted spider mite (Tetranychus bimaculatus) -- Very abundant on alfalfa in the Yuma Valley of Arizona. (G. Butler).

Sugarcane borer (Diatraea saccharalis) -- With the advent of hot weather hatching of first-generation borers has been rapid and widespread in St. Mary Parish, La. Several thousand acres of sugarcane being dusted and additional acreage will be treated as the infestation develops. Heavy infestations appearing in sweet corn and field corn. Development has not progressed sufficiently in the Bayou Lafourche, Mississippi River, and Bunkie-Meeker districts to determine seriousness of infestation. (A. L. Dugas).

## FRUIT INSECTS

Red-banded leaf roller (Argyrotaenia velutinana) -- Egg masses in most orchards in Massachusetts. (E. H. Wheeler and W. H. Thies). Some hatching observed May 1, in lower Hudson Valley of New York. Egg masses not so abundant as last year. (N. Y. St. Coll. Agr., News Letter). Larvae seen for first time May 7 in Cumberland County, N. J. (A. J. Farley). Larvae from 1/4 to 1/2 inch long in many apple orchards in southern Illinois. Infestation light. (S. C. Chandler). All eggs of first brood hatched Carbondale, Ill.-Vincennes, Ind. area. (Spray Service Report, Ill., Ind., and Ky.). Hatching complete in central Missouri. (Weekly Rept. to Fr. Growers, Univ. Mo.).

Codling moth (Carpocapsa pomonella) -- Moths emerging in numbers in Lawrence and Orange Counties, Ind., May 6. (G. E. Marshall). First moths emerged in cages at Carbondale and Anna, Ill., on May 5. Cool weather has retarded emergence. (S. C. Chandler). Emergence at Cape Girardeau, Mo., started May 5. (Weekly Rept. to Fr. Growers, Univ. Mo.). First moths taken in bait traps in Yakima Valley, Wash., May 4. (E. J. Newcomer).

Eastern tent caterpillar (Malacosoma americana) -- Very abundant and general in Massachusetts. More abundant in central and western Massachusetts than for several years. (A. I. Bourne). Attracting considerable attention along roadsides and in unsprayed orchards in Wisconsin. (E. L. Chambers).

European apple sawfly (Hoplocampa testudinea) -- Adults and eggs observed in lower Hudson Valley of New York in Putnam County near Westchester County line May 2, and near Middle Hope, Orange County, May 3. (N. Y. St. Coll. Agr. News Letter).

Fruit aphids -- About normal in Massachusetts, not serious. (A. I. Bourne). Fair populations of rosy apple aphid (Anuraphis roseus) on some untreated orchards in the lower Hudson Valley. All fruit aphids scarce in Orleans County and rosy apple aphid observed in limited numbers and green aphid (Aphis pomi) numerous in some blocks in Onondaga County, N. Y. (N. Y. St. Coll. Agr., News Letter). Aphids not very noticeable in apple orchards in New Jersey. (A. J. Farley).

Oriental fruit moth (Grapholitha molesta) -- First infested peach twigs noticed in Lawrence and Orange Counties, Ind. (G. E. Marshall). First wilted peach twigs at Carbondale, Ill., May 3. (S. C. Chandler).

Plum curculio (Conotrachelus nenuphar) -- A few adult feeding punctures in peach in New Jersey, May 6 and 7. (A. J. Farley). Adults still present on peach trees in southern Illinois. First larvae in fruit of peach May 6. (S. C. Chandler). Egg-laying and feeding punctures in apricot in central Missouri May 6; and egg-laying in apples. Egg-laying punctures in peach at Cape Girardeau on April 29. (Weekly Rept. to Fr. Growers, Univ. Mo.).

Tarnished plant bug (Lygus oblineatus) -- Normally abundant on fruit trees in Massachusetts. In one orchard 75 percent of buds injured or killed. (A. I. Bourne). Heavy injury to peach in Lawrence and Orange Counties, Ind. (G. E. Marshall).

European red mite (Paratetranychus pilosus) -- Eggs hatching week of April 29 in Massachusetts. Infestation light in many orchards and heavy in others. (A. I. Bourne). Young from overwintered eggs evident. (E. H. Wheeler and W. H. Thies). Eggs mostly hatched in the Hudson Valley but only a few in western New York. (N. Y. St. Coll. Agr., News Letter). Cool weather has retarded development in New Jersey, but practically all eggs have hatched in central and southern parts of State. (A. J. Farley).

Two-spotted spider mite (Tetranychus bimaculatus) -- Abundant on ground cover in orchards in Massachusetts. (A. I. Bourne).

A leaf miner (Phytomyza obscurella nigritella) -- Puparia numerous in overwintering peach leaves near Berlin Heights, Erie County, Ohio. First adults caught with sticky-boards and sweep net May 1. ( R. W. Rings).

Pear psylla (Psylla pyricola) -- Very abundant and egg-laying heavy in Massachusetts. (A. I. Bourne). Nymphs in Hudson Valley and western New York. (N. Y. St. Coll. Agr. News Letter). Summer adults beginning to appear in Yakima Valley, Wash. (E. J. Newcomer). Eggs and nymphs present in Willamette Valley, Roseberg, and Medford areas of Oregon. (Oregon St. Coll., Ent. Dept.).

Eye-spotted bud moth (Spilonota ocellana) -- Appeared early in March in Willamette Valley of Oregon and in some sections 5 to 6 percent infestation in fruit resulted. (Oregon St. Coll., Ent. Dept.).

Pecan leaf casebearer (Acrobasis juglandis) -- More abundant on pecan in vicinity of Albany, Ga., than usual. (M. R. Osburn).

A spittlebug (Clastoptera achatina) -- First nymphs on pecan at Anna, Ill., May 5. (S. C. Chandler).

Apple twig borer (Amphicerus bicaudatus) -- Heavy infestation on grapes in Colorado. (L. B. Daniels).

Olive scale (Parlatoria oleae) -- An infestation found on peach in Poway Valley, San Diego County, Calif., April 29, 1952. This is the first infestation for the county. (H. M. Armitage).

## VEGETABLE INSECTS

Mexican bean beetle (Epilachna varivestis) -- First adult observed in Norfolk district of Virginia on May 1; first egg mass on May 8. Adults relatively scarce, increasing slowly. (R. W. Brubaker, D. E. Greenwood, and R. N. Hofmaster). Small numbers of overwintered adults and about half-grown larvae on snap and lima beans at Charleston, S. C. (W. J. Reid). Increasing rapidly on snap beans in Gadsden and adjacent counties of Florida. Control measures required. (L. M. May and W. C. Rhoades).

Bean leaf beetle (Cerotoma trifurcata) -- Adults increasing and causing some injury to snap and lima beans. (R. W. Brubaker, D. E. Greenwood, and R. N. Hofmaster). Continues to cause light injury to young beans in Charleston, S. C. district. (W. J. Reid). Light injury to lima and snap beans in the Nashville district of Tennessee. (L. B. Scott). Considerable damage to beans in all areas of Missouri. (Weekly Rept. to Fr. Growers, Univ. Mo.).

Seed-corn maggot (Hylemya cilicrura) -- Very abundant in southern California. In Ventura County 10 acres of snap beans destroyed; replanted. In Orange County, untreated part of a lima bean field seriously damaged. In Los Angeles County a field of transplanted onions seriously damaged. (R. E. Campbell).

Flea beetles (Halticinae) -- Moderately abundant on cabbage and radishes in Niagara County, N. Y. (N. Y. St. Coll. Agr., News Letter). Numerous on cabbage, kale, and potato in Delaware. (Late News about Insects and Diseases, Univ. Del.). Injury to potato and tomato in eastern Virginia. (R. W. Brubaker, D. E. Greenwood, and R. N. Hofmaster). Small numbers on tomato, eggplant, and turnip in the Nashville district of Tennessee. (L. B. Scott). Damaging tomato plants at Gallipolis, Ohio. (F. H. Harries). Sufficiently abundant on sugar beets near Toppenish, Wash., to require treatment. (B. J. Landis).

Colorado potato beetle (Leptinotarsa decemlineata) -- A few adults observed in Monroe County, N. Y., April 28. (N. Y. St. Coll. Agr., News Letter). Adults sent from Cecil County, Md. (T. L. Bissell). Adults injuring potato and tomato on the eastern shore of Virginia, present on potato in the Norfolk district. Some young larvae observed on the eastern shore. (R. W. Brubaker, D. E. Greenwood and R. N. Hofmaster). Destructive in unprotected potato fields in Florida. (L. M. May and W. C. Rhoades). Overwintered adults observed in southern Idaho. (J. R. Douglass).

Cabbage caterpillars -- Populations of imported cabbageworm (Pieris rapae), cabbage looper (Trichoplusia ni), and diamondback moth (Plutella maculipennis) light to moderate and increasing slowly in Charleston district of South Carolina. (W. J. Reid). Light infestation of imported cabbageworm on cabbage in Gallipolis-Pomeroy district of Ohio. (F. H. Harries).

Cabbage maggot (Hylemya brassicae) -- Eggs in Plymouth, Hampden, and Hampshire Counties, Mass., and reported by W. D. Whitcomb in Middlesex County. (E. H. Wheeler and W. H. Thies). Some egg-laying in Monroe County, N. Y., on April 30. (N. Y. St. Coll. Agr., News Letter). Infestations general in New Jersey. (O. Starnes).

Strawberry weevil (Anthonomus signatus) -- Injuring some strawberry plantings on the eastern shore of Virginia. (R. W. Brubaker, D. E. Greenwood, and R. N. Hofmaster).

Strawberry crown moth (Ramosia bibionipennis) -- Present in epidemic numbers in Willamette Valley of Oregon. (Oregon St. Coll. Ent. Dept.)

Two-spotted spider mite (Tetranychus bimaculatus) -- Severe injury to strawberry in the Norfolk district of Virginia. (R. W. Brubaker, D. E. Greenwood, and R. N. Hofmaster). Much more severe on strawberries in southern California than usual. (R. E. Campbell).

Corn earworm (Heliothis sp. probably armigera) -- A few fields of late spring lettuce in the Salt River Valley of Arizona infested with corn earworm or closely related species. Damage is in the center of head and cannot be detected without opening the head; therefore, a low percentage of infested heads prevents harvest. Fortunately, lettuce harvest is nearly over. (O. A. Hills).

Onion maggot (Hylemya antiqua) -- Eggs present in all areas of New Jersey. (O. Starnes).

Vegetable weevil (Listroderes costirostris obliquus) -- Seriously injuring flue-cured tobacco in Irwin County, Ga. As many as three larvae per plant. (P. C. Geiger). Present on shade-grown tobacco in northwestern Florida. (F. S. Chamberlin and L. M. May).

Green peach aphid (Myzus persicae) -- Appears to be under control on the shade-grown tobacco acreage in northwestern Florida, but infestations on untreated experimental plantings show the same severe potential as during the last several seasons. (F. S. Chamberlin and L. M. May).

COTTON INSECTS

Boll weevil (Anthonomus grandis) -- At Florence, S. C., 60 live weevils were removed from 10 hibernation cages during week ending May 9 as compared with none in 1951, 117 in 1950, and 32 in 1949, corresponding period. One weevil found on cotton May 2, St. Charles, S. C. (L. C. Fife and R. L. Walker). Damage to seedling cotton in Tift County, Ga., May 6. (L. W. Morgan). At Tallulah, La., 50 trash collections made from 5 fields April 30 to May 1 showed 17 percent survival from November 1951 counts. This compares with 29 percent for same period 1951 and 27 percent 1950. (R. C. Gaines and Assistants). Moving into the cotton fields in Louisiana. (L. D. Newsom). Spread to all parts of Cameron, Willacy, and Hidalgo Counties, Tex. (A. N. White). Continue to emerge from cages at Waco, Tex., in comparatively large numbers. In only three years in the last 13 that hibernation records have been available at Waco has emergence at this time of year been greater than this year. Years of higher emergence, 1941, 1945, and 1950. In 1944 same as this year; other years much lower. (K. P. Ewing).

Darkling beetles (*Blapstinus* spp.) -- Necessitating use of insecticides on cotton in Pima County, Ariz., (W. A. Stevenson and Assistants).

Pale-striped flea beetle (*Systena blanda*) -- Damaging cotton in Hart County, Ga. (C. R. Jordan).

Bollworms (*Heliothis* spp.) -- In many cotton fields in the Lower Rio Grande Valley of Texas; control needed in some. (A. N. White).

Cutworms (Phalaenidae) -- Damaging cotton in Piedmont section of Georgia. (C. M. Beckham and C. R. Jordan). Destroyed stands of cotton in several fields in central Texas around Waco; replanting necessary. (K. P. Ewing, A. C. Gunter, and H. G. Johnston). Army cutworm (*Chorizagrotis auxiliaris*) damaging seedling cotton in New Mexico. (M. Swoboda).

Aphids on cotton -- Light general infestation on cotton in Red River Valley area of Louisiana. (L. D. Newsom). Populations increasing in the Lower Rio Grande Valley of Texas. (A. N. White). Starting to build up on seedling cotton in New Mexico. (M. Swoboda).

Cotton fleahopper (*Psallus seriatus*) -- Emerging from cages at Waco, Tex. in normal or above normal numbers; and have been found in cotton fields in the following counties: Nueces, Jim Wells, Brooks, Dimmit, Live Oak, Maverick, McMullen, Zavala, Uvalde, Bee, and Bexar. (K. P. Ewing).

Thrips on cotton -- Examinations in two unchopped cotton fields at Tallulah, La., showed 4,980 trhips per acre in one and 307,515 in the other. (K. C. Gaines and Assistants). Heavy infestation of tobacco thrips (Frankliniella fusca) in Shreveport district of Louisiana. (L. D. Newsom). Thrips (undetermined) caused light to heavy damage in scattered sections of South Texas, especially in the Coastal Bend area, and as far north as College Station. (K. P. Ewing, A. C. Gunter, and H. G. Johnston). Thrips starting to build up on seedling cotton in New Mexico. (M. Swoboda). Numerous in some cotton fields in Yuma County, Ariz. First applications for thrips control in large scale experiments at Continental, Pima Co., Ariz., made May 10. Hundreds of acres will receive treatment. Control necessary in Pinal County, Ariz. (W. A. Stevenson and Assistants).

## OTHER FIBER-PLANT INSECTS

A mealybug (Trionymus diminutus Leonardi) --Found during April in a nursery at Fairfax, Marin County, Calif. Being picked up in localities in the San Francisco Bay region. Previous collections made at Belmont, San Mateo County and in Berkeley. It has been present in California since 1906. Its only known food plant is New Zealand fiberlily (Phormium tenax). (H. M. Armitage).

## FOREST INSECTS

Birch leaf miner (Fenusa pusilla) -- The first flies at Waltham, Mass., May 2. (A. I. Bourne).

Spruce mite (Paratetranychus ununguis) -- Becoming very abundant and general in Massachusetts. (A. I. Bourne).

## INSECTS AFFECTING MAN AND ANIMALS

Cattle grubs (Hypoderma spp.) -- Larval infestations in yearlings in central S. Dak. (Hughes and Hyde counties) averaged 30 to 35 per head. Hypoderma bovis was the predominant species with almost no H. lineatum observed. Larvae were present from the first part of February until the first part of May. In the western part of the state (Meade and Pennington counties) H. lineatum larvae first appeared the last part of January. H. bovis appeared in late February and were present until late April. H. bovis were taken from native cattle in the eastern edge of the state (Grant county) heretofore considered to be grub-free. (Weekly Insect Report, S. Dak. Coll. Agr.)

Screw-worm (*Callitroga americana*) -- Two cases in cattle in Brooks County, Ga. (C. R. Jordan).

Mosquitoes (Culicinae) -- Appearing in very large numbers and causing considerable annoyance to man and cattle in South Dakota. (Weekly Ins. Rept. S. Dak. Coll. Agr.) Emergence of adults (*Aedes* app.) in Yellowstone River Valley of Custer County, Mont., week of April 21. (J. P. Corkins).

Brown-banded roach (*Supella supellectilium*) -- First recorded from Oregon in 1950-51, when specimens taken from home in Corvallis. No additional specimens have been collected. (Oregon St. Coll., Ent. Dept.).

## Recent Important Interceptions at Ports of Entry

The golden nematode, *Heterodera rostochiensis*, was intercepted at San Juan, Puerto Rico, from a shipment of 800 bags of potatoes from the Canary Islands. To our knowledge this represents the first record of the occurrence of the golden nematode in the Canary Islands. (Plant Quarantines).

The fourth interception of the golden nematode from Peru, where it was only recently reported for the first time, was made at Oakland, Calif. from potatoes in ship's stores. (C. H. Oatridge). Also recently found at New York in 700 tons of ship's ballast from Scotland. (J. Wehrle).

Living stages of melon fly (*Dacus curcubitae*) were intercepted on 3 occasions at San Diego, Calif. A total of 146 larvae and eggs were taken from cucumbers and tomatoes in ships' stores. (J. O. Wible and J. E. Bird.)

Living egg spirals, larvae, and pupae of citrus blackfly, (*Aleurocanthus woglumi*) taken at Nogales, Ariz. on coffee leaves found in the baggage of a traveller en route to Los Angeles, Calif. (R. C. Allen).